

# SuperServer 1029P-MTR



## Integrated Board



## Super X11DPL-i

Views: | [Angled View](#) | [Top View](#) |  
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Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

## Key Applications

**Data Center Optimized**  
**Web Server**  
**Enterprise Server**  
**Managed Hosting**  
**Short Depth**

## Key Features

1. Dual Socket P (LGA 3647) support  
2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)‡
2. 8 DIMMs; up to 2TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM
3. 1 PCI-E 3.0 x8 (FHHL) slot
4. 8 Hot-swap 2.5" SATA3 drive bays,  
1 Slim DVD-ROM drive (optional),  
Optional PCIe/SATA M.2 drive  
M.2 holder: MCP-450-00003-0N
5. 2 1GbE LAN ports via Marvell 88E1512
6. IPMI 2.0 + KVM with Dedicated LAN
7. 1 VGA, 2 USB 2.0 (rear)
8. 2 SuperDOM (Disk on Module) ports;  
1 PCIe/SATA M.2 drive connector
9. 800W Redundant Power Supplies  
**Platinum Level**

# Specifications

## Product SKUs

**SYS-1029P-MTR** ■ SuperServer 1029P-MTR (Black)

## Motherboard

**Super X11DPL-i**

## Processor

**CPU** ■ Dual Socket P (LGA 3647)  
 ■ 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors<sup>‡</sup>,  
 Dual UPI up to 10.4GT/s  
 ■ Support CPU TDP 70-140W with IVR

**Cores** ■ Up to 28 Cores

**Note** <sup>‡</sup> BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

## System Memory

**Memory Capacity** ■ 8 DIMM slots  
 ■ Up to 2TB 3DS ECC DDR4-2933MHz<sup>†</sup> RDIMM/LRDIMM

**Memory Type** ■ 2933<sup>†</sup>/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

**Note** <sup>†</sup> 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro

## On-Board Devices

**Chipset** ■ Intel® C621 chipset

**SATA** ■ SATA3 (6Gbps); RAID 0, 1, 5, 10

**Network Controllers** ■ Marvell 88E1512 PHY Gigabit Ethernet controller  
 ■ Supports 1000BASE-T

**IPMI** ■ Support for Intelligent Platform Management Interface v.2.0  
 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

**Video** ■ ASPEED AST2500 BMC

## Input / Output

**SATA** ■ 8 SATA3 (6Gbps) ports

**LAN** ■ 2 RJ45 Gigabit Ethernet LAN ports  
 ■ 1 RJ45 Dedicated IPMI LAN port

**USB** ■ 2 USB 2.0 ports (rear)

**Video** ■ 1 VGA port

**Serial Port / Header** ■ 1 COM port (header)

**DOM** ■ 2 Super**DOM** (Disk on Module) ports

## System BIOS

**BIOS Type** ■ 256Mb SPI Flash EEPROM with AMI BIOS

## Chassis

**Form Factor** ■ 1U Rackmount

**Model** ■ **CSE-113MFTS-R804CB**

## Dimensions and Weight

**Width** ■ 17.2" (437mm)

**Height** ■ 1.7" (43mm)

**Depth** ■ 19.98" (508mm)

**Package** ■ 23.4" (W) x 8.5" (H) x 29.7" (L)

**Weight** ■ Gross Weight: 31.1 lbs (14.1 kg)

**Available Colors** ■ Black

## Front Panel

**Buttons** ■ Power On/Off button  
 ■ System Reset button

**LEDs** ■ Power status LED  
 ■ HDD activity LED  
 ■ Network activity LEDs  
 ■ Universal Information (UID) LED

## Expansion Slots

**PCI-Express** ■ 1 PCI-E 3.0 x8 (FHHL) slot

## Drive Bays

**Hot-swap** ■ 8 Hot-swap 2.5" SATA3 drive bays

## Peripheral Drives

**Optional** ■ Slim DVD-ROM drive (optional)  
 ■ PCIe/SATA M.2 drive (optional)

## System Cooling

**Fans** ■ 4x 4cm 22.5K RPM middle cooling fans

## Power Supply

800W Redundant Power Supplies with PMBus

**Total Output Power** ■ 800W

**Dimension (W x H x L)** ■ 54.5 x 40.25 x 220 mm

**Input** ■ 750W: 100-127Vac / 10A  
 ■ 800W: 200-240Vac / 5.5A  
 ■ 800W: 230-240Vdc / 5.5A

**+12V** ■ Max: 62.5A /Min: 0.5A (100-127Vac)  
 ■ Max: 66.6A /Min: 0.5A (200-240Vac, 230-240Vdc)

**+5Vsb** ■ Max: 4A /Min: 0A

**Output Type** ■ Gold Finger

**Certification** ■  Platinum Level

**Management****Software**

- Intel® Node Manager
- IPMI 2.0
- KVM with dedicated LAN
- NMI
- SSM, SPM, SUM
- SuperDoctor® 5
- Watch Dog

**Power Configurations**

- ACPI / APM Power Management

**PC Health Monitoring****CPU**

- Monitors for CPU Cores, Chipset Voltages, Memory.
- 4+1 Phase-switching voltage regulator

**FAN**

- Fans with tachometer monitoring
- Status monitor for speed control
- Pulse Width Modulated (PWM) fan connectors

**Temperature**

- Monitoring for CPU and chassis environment
- Thermal Control for fan connectors

**DC option for: (AC counterpart)**

- PWS-601D-1R

**Operating Environment****RoHS**

- RoHS Compliant

**Environmental Spec.**

- Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
- Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5% to 95% (non-condensing)

## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11DPL-i	1	Super X11DPL-i Motherboard
	CSE-113MFTS-R804CB	1	1U Chassis
<b>Backplane</b>	BPN-SAS3-113A-N2	1	8-port 1U SAS3 12Gbps Hybrid backplane, support up to 6x 2.5-inch SAS3/SATA3 HDD/SSD and 2x SAS3/SATA3/NVMe Storage Devices
<b>Cable 1</b>	CBL-SAST-0631	2	MINI SAS HD-4 SATA,6G,INT,RF,Cross Over,55CM,55CM SB,30AWG
<b>Parts</b>	MCP-260-00111-0N	1	1U I/O Shield for X11DPL-i with EMI Gasket
<b>Air Shroud</b>	MCP-310-19015-0N	1	SC813M,SC113M, DP X9DRL-EF/ X9DRL-7F/ X10DRL-i, X9/X10 mylar air shroud, 12
<b>Manual</b>	MNL-2012-QRG	1	1029P-MT/MTR Quick Reference Guide
<b>Riser Card</b>	RSC-RR1U-E8	1	RSC-RR1U-E8
<b>Heatsink / Retention</b>	SNK-P0067PD	2	1U Passive Proprietary CPU Heat Sink for X11DPL Motherboard Equipped with a Square Retention Mechanism
<b>* Power Supply</b>	PWS-804P-1R	2	1U 800W 100-240VAC/50-60Hz, and DC240V input
<b>* Power Distributor</b>	PDB-PT813M-2424	1	Power Distributor With 24pin for SC813M
<b>* Cable 2</b>	CBL-0335L	1	CBL,FRONT CNTL,20 TO 20 PIN,RA,RND TUBE,73CM,28AWG
<b>* Cable 3</b>	CBL-PWCD-0160-IS	2	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,13A,125V,RoHS/REACH
<b>* FAN 1</b>	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH
<b>* Front Panel</b>	FPB-FP112	1	Front control board for SC113,113M (U/C share)
<b>* Drive Tray(s)</b>	MCP-220-00047-0B	8	Black gen 3rd hot-swap 2.5inch HDD tray
<b>* Rear Window</b>	MCP-240-00086-0N	1	STD rear window for SC113 redundant PWS
<b>* Power Supply</b>	MCP-250-00016-0V	1	Redundant Silver plastic PDB cover for SC813M,113M
<b>* Parts</b>	MCP-260-00078-0N	1	1U I/O shield for X10 and X9 Server MB with 5X5mm vent hole and EMI Gasket,RoHS/REACH,PBF
<b>* Peripheral Drive 1</b>	MCP-290-00036-0B	1	Black DVD dummy tray support 1x2.5 HDD for SC113,815,825,836
<b>* Parts</b>	MCP-290-00037-0N	1	SC113 Control panel module (w/o DVD)
<b>* Rail Set</b>	MCP-290-00102-0N	1	Outer rail, quick-release type, 25.6" to 33.05"
<b>* Rail Set</b>	MCP-290-00107-0N	1	Inner rail, front, short, screw type
<b>* Rail Set</b>	MCP-290-00110-0N	1	Inner rail, extension (quick) for 1U 17.2
<b>* Fan Holder</b>	MCP-320-00031-0B	1	Fan tray for six 40x28 fans(SC813M/113M)
<b>* Parts</b>	MCP-340-00001-01	2	Dummy fan 40x28mm

### Notes:

1. Parts with \* are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

### Optional Parts List

	Part Number	Qty	Description
<b>NVMe AOC card</b>	AOC-SLG3-2E4T	1	2 Port NVMe PCI-E x8 Redriver Card
<b>Cable Management Arm</b>	MCP-290-00152-0N	1	1U Supermicro Cable Management Arm 2nd Gen
<b>Cable</b>	CBL-SAST-0929	2	OcuLink v 1.0 source to MiniSAS HD,INT,PCIe, 57CM,34AWG
	CBL-SAST-0531	2	MINI SAS HD,12G,INT,80CM,30AWG
<b>Storage Controller Card(s) &amp; Cables(s)</b>	AOC-S3108L-H8IR-16DD + 2x CBL-SAST-0531 + 1x FAN-0154L4	-	8 internal ports, 12Gb/s per port- Gen3, 16HDD, RAID 0, 1, 5, 6, 10, 50, 60; Internal Mini-SAS HD to Mini-SAS HD 80cm,30AWG,12Gb/s
	AOC-S3008L-L8i + 2x CBL-SAST-0531	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 63HDD; RAID 0, 1, 10

	AOC-S3008L-L8e + 2x CBL-SAST-0531	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 122HDD; HBA
<b>Network Card(s)</b>	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® i350AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel® i350
	AOC-SG-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® 82575EB
	AOC-SG-i4	-	Standard LP, 4x GbE RJ45, PCI-E x8, Intel® 82576EB
	AOC-STG-b4S	-	Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom® BCM57840S
	AOC-STGN-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel® 82599ES
	AOC-STGN-i1S	-	Standard LP, 1x 10GbE SFP+, PCI-E x8, Intel® 82599ES
	AOC-STG-i2T	-	Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel® X540
	AOC-STG-i2	-	Standard LP, 2x 10GbE CX4, PCI-E x8, Intel® 82598EB
<b>DVD-ROM / DVD-RW</b>	DVM-PNSC-DVD-SBT3	-	BLACK PANASONIC SLIM DVD ROM SATA DRIVE
	DVM-TEAC-DVD-SBT3	-	BLACK TEAC SLIM DVD ROM SATA DRIVE
	DVM-PLDS-DVDRW-SBT4	-	PHILIPS SLIM BLACK DVD-RW SATA DRIVE
	DVM-TEAC-DVDRW-SBT2	-	BLACK TEAC SLIM DVD-RW SATA DRIVE
<b>DVD-ROM Accessory</b>	MCP-220-81502-0N	-	Slim SATA DVD kit for SC213,219,813,815,818,819,825,828,829,836,842
<b>TPM 2.0</b>	AOM-TPM-9670V	1	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
<b>Global Services &amp; Support</b>	<a href="#">OS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
	<a href="#">OSNBD3/2/1</a>	-	3/2/1-year onsite NBD service
<b>Software</b>	<a href="#">SFT-OOB-LIC</a> • <a href="#">eStore</a>	1	OOB Management Package (per node license)
<b>Software</b>	<a href="#">SFT-DCMS-Single</a>	1	DataCenter Management Package (per node license)